

C LANG TEST-8 (POINTERS)

Total points 50/50 ?

STUDENT NAME *

VIVA

✓ 1. A pointer is a variable that stores — *

1/1

- ☐ A) Value of another variable
- ☒ B) Address of another variable
- ☐ C) Both value and address
- ☐ D) None



✓ 2. The symbol used to declare a pointer variable is — *

1/1

- ☐ A) &
- ☒ B) *
- ☐ C) #
- ☐ D) @



✓ 3. The operator & is called — *

1/1

- ☐ A) Value operator
- ☒ B) Address-of operator
- ☐ C) Reference operator
- ☐ D) Multiply operator



✓ 4. operator * used with a pointer variable gives — *

1/1

- ☐ A) Address stored in pointer
- ☒ B) Value stored at that address
- ☐ C) Address of pointer itself
- ☐ D) None



✓ 5. Which of the following declares a pointer to integer correctly? *

1/1

- ☐ A) int p;
- ☒ B) int *p;
- ☐ C) int &p;
- ☐ D) pointer int p;



✓ 6. What is the output of this code? *

1/1

```
int x = 10;
```

```
int *p = &x;
```

```
printf("%d", *p);
```

- ☒ A) 10
- ☐ B) Address of x
- ☐ C) Garbage
- ☐ D) Error



✓ 7. The expression `p = &a;` means — *

1/1

- ☒ A) Value of a assigned to p
- ☐ B) Address of a assigned to p
- ☐ C) Address of p assigned to a
- ☐ D) None



✓ 8. A pointer that does not point to any valid memory location is called — * 1/1

- ☐ A) Void pointer
- ☒ B) NULL pointer
- ☐ C) Wild pointer
- ☐ D) Dangling pointer



✓ 9. What value does a NULL pointer have? *

1/1

- ☐ A) 1
- ☒ B) 0
- ☐ C) -1
- ☐ D) Garbage



✓ 10. Which header file defines NULL in C? *

1/1

- ☐ A) stdlib.h
- ☐ B) stdio.h
- ☐ C) stddef.h
- ☒ D) All of these



✓ 11. A pointer holding an address of a variable which has been deleted or deallocated is – *1/1

- ☐ A) NULL pointer
- ☐ B) Wild pointer
- ☒ C) Dangling pointer
- ☐ D) Void pointer



✓ 12. Which pointer can point to any data type? *

1/1

- ☐ A) Wild pointer
- ☐ B) Null pointer
- ☒ C) Void pointer
- ☐ D) Function pointer



✓ 13. The size of any pointer variable in 32-bit compiler is — *

1/1

- ☐ A) 2 bytes
- ☒ B) 4 bytes
- ☐ C) 8 bytes
- ☐ D) Depends on data type



✓ 14. What is the output? *

1/1

```
int a = 5;
```

```
int *p = &a;
```

```
printf("%u", p);
```

- ☐ A) 5
- ☒ B) Address of a
- ☐ C) Garbage
- ☐ D) Compilation error



✓ 15. Which operator is used to access the value at the address pointed by a pointer? *1/1

- ☐ A) *
- ☐ B) &
- ☒ C) ->
- ☐ D) %



✓ 16. Which of the following statements is correct? *

1/1

- ☐ A) A pointer can hold an address of only int type
- ☒ B) A pointer can hold address of any data type if type-casted properly
- ☐ C) Pointer cannot be used for char
- ☐ D) None



✓ 17. Pointer arithmetic is allowed on — *

1/1

- ☐ A) void pointers
- ☐ B) null pointers
- ☒ C) array pointers
- ☐ D) all of these



✓ 18. If p is a pointer to integer, then p++ increases its value by — *

1/1

- ☐ A) 1
- ☐ B) 2
- ☒ C) 4 (if int = 4 bytes)
- ☐ D) 8



✓ 19. What will this print? *

1/1

```
int a[3] = {10,20,30};
```

```
int *p = a;  
printf("%d", *(p+2));
```

- ☐ A) 10
- ☐ B) 20
- ☒ C) 30
- ☐ D) Garbage



✓ 20. The expression &*p is equivalent to — *

1/1

- ☐ A) *p
- ☐ B) &p
- ☒ C) p
- ☐ D) *&p



✓ 21. What is the output? *

1/1

```
int x = 5;
```

```
int *p = &x;
```

```
int **q = &p;
```

```
printf("%d", **q);
```

- ☒ A) 5
- ☐ B) Address of x
- ☐ C) Address of p
- ☐ D) Error



✓ 22. A pointer to a pointer is also called — *

1/1

- ☒ A) Double pointer
- ☐ B) Pointer chain
- ☐ C) Multi-pointer
- ☐ D) None



✓ 23. Which of the following initializes a NULL pointer correctly? *

1/1

- ☐ A) `int *p = 0;`
- ☐ B) `int *p = NULL;`
- ☒ C) Both A and B
- ☐ D) None



✓ 24. Pointer arithmetic can only be performed on — *

1/1

- ☐ A) Numeric data types
- ☐ B) Arrays
- ☒ C) Same type pointers
- ☐ D) None



✓ 25. What will be the output? *

1/1

```
int x = 10, y = 20;  
  
int *p = &x;  
  
int *q = &y;  
  
printf("%d", *p + *q);
```

- ☐ A) 10
- ☐ B) 20
- ☒ C) 30
- ☐ D) Garbage



✓ 26. Which of the following is an invalid pointer declaration? *

1/1

- ☐ A) int *p;
- ☐ B) float *f;
- ☒ C) int *p, q;
- ☐ D) int *p, *q;



✓ 27. Which function is used to allocate memory dynamically? *

1/1

- ☐ A) malloc()
- ☐ B) calloc()
- ☐ C) realloc()
- ☒ D) All of these



✓ 28. . Which function is used to free allocated memory? *

1/1

- ☐ A) delete()
- ☐ B) remove()
- ☒ C) free()
- ☐ D) clear()



✓ 29. What is the return type of malloc()? *

1/1

- ☒ A) void *
- ☐ B) int *
- ☐ C) char *
- ☐ D) float *



✓ 30. The pointer to the first element of an array a is — *

1/1

- ☒ A) a
- ☐ B) &a
- ☐ C) a[0]
- ☐ D) &a[1]



✓ 31. The expression $*(a+i)$ is equivalent to — *

1/1

- ☒ A) $a[i]$
- ☐ B) $*(a+i+1)$
- ☐ C) $a+i$
- ☐ D) $*a[i]$



✓ 32. A pointer to function is declared using — *

1/1

- ☐ A) $()$
- ☐ B) $[]$
- ☒ C) $*$
- ☐ D) $->$



✓ 33. . What is the correct declaration of a pointer to a function returning int ?

*1/1

- ☐ A) $int *f();$
- ☒ B) $int (f)();$
- ☐ C) $int f();$
- ☐ D) $int f();$



✓ 34. Pointers are mainly used in — *

1/1

- ☐ A) Function arguments
- ☐ B) Dynamic memory allocation
- ☐ C) Arrays and strings
- ☒ D) All of these



✓ 35. What is a wild pointer? *

1/1

- ☐ A) Points to garbage
- ☐ B) Points to NULL
- ☐ C) Not initialized pointer
- ☒ D) Both A and C



✓ 36. . Which pointer is safest to use? *

1/1

- ☐ A) Wild pointer
- ☒ B) NULL pointer
- ☐ C) Dangling pointer
- ☐ D) Void pointer



✓ 37. Which of the following is true about pointer comparison? *

1/1

- ☐ A) Can compare any two pointers
- ☒ B) Can compare pointers pointing to same array
- ☐ C) Both
- ☐ D) None



✓ 38. The value of a pointer variable is — *

1/1

- ☐ A) Variable name
- ☒ B) Address
- ☐ C) Data type
- ☐ D) Value stored



✓ 39. Pointers are used to implement — *

1/1

- ☐ A) Arrays
- ☐ B) Strings
- ☐ C) Linked Lists
- ☒ D) All of these



✓ 40. What will the following code print? *

1/1

```
int x = 10;
```

```
int *p = &x;
```

```
*p = 20;
```

```
printf("%d", x);
```

- ☐ A) 10
- ☒ B) 20
- ☐ C) Garbage
- ☐ D) Error



✓ 41. Pointer increment depends on — *

1/1

- ☒ A) Data type size
- ☐ B) Value of variable
- ☐ C) Type of compiler
- ☐ D) OS



✓ 42.. What will be printed? *

1/1

```
int a[3] = {1,2,3};
```

```
int *p = a;
```

```
printf("%d", *(p++));
```

- ☒ A) 1
- ☐ B) 2
- ☐ C) 3
- ☐ D) Garbage



✓ 43. Which of the following is NOT a valid pointer type? *

1/1

- ☐ A) int *
- ☐ B) float *
- ☐ C) bool *
- ☒ D) string *



✓ 44. What does this code print? *

1/1

```
int a=10;
```

```
int *p=&a;
```

```
printf("%d", *&a);
```

- ☒ A) 10
- ☐ B) Address of a
- ☐ C) Garbage
- ☐ D) Error



✓ 45. A pointer variable can be used to — *

1/1

- ☐ A) Store an address
- ☐ B) Change value indirectly
- ☐ C) Access array elements
- ☒ D) All of these



✓ 46. What is the output? *

1/1

```
int a=5, b=10;
```

```
int *p=&a;
```

```
*p=*p + b;
```

```
printf("%d", a);
```

- ☐ A) 5
- ☐ B) 10
- ☒ C) 15
- ☐ D) Garbage



✓ 47. A function can return — *

1/1

- ☐ A) A value
- ☐ B) A pointer
- ☒ C) Both A and B
- ☐ D) None



✓ 48. Which of these statements about pointer arrays is correct? *

1/1

- ☐ A) Each element is a pointer
- ☐ B) It holds addresses of variables
- ☐ C) It can point to strings
- ☒ D) All of these



✓ 49. What is the difference between array name and pointer variable? * 1/1

- ☐ A) Array name is constant pointer
- ☐ B) Pointer can change its address
- ☐ C) Array name cannot change its address
- ☒ D) All of these



✓ 50. Which of the following statements is TRUE? * 1/1

- ☐ A) Pointer to void cannot be dereferenced directly
- ☐ B) Pointer arithmetic cannot be done on void pointers
- ☐ C) Pointers must be initialized before use
- ☒ D) All of the above



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